

**What is Claimed Is:**

1. A work measurement apparatus, comprising  
a conveyor with a work receiving opening, and  
a pair of probes disposed on front and rear sides of the conveyor to make contact with a work,  
the work receiving opening penetrating through the conveyor and at least one end of the work receiving opening having a guide entrance,  
the work being received within the work receiving opening, and  
at least one of the probes being urged towards the work in the work receiving opening, said probe being guided by the guide entrance to enter into the work receiving opening, make contact with the work and exit the work receiving opening via the guide entrance.
2. The work measurement apparatus according to claim 1, wherein  
the conveyor is formed as one part made of an electrical insulation material.
3. The work measurement apparatus according to claim 1, wherein  
the conveyor has a conveyor body, and a guide plate which is disposed on the conveyor body and includes the guide entrance.
4. The work measurement apparatus according to claim 3, wherein  
the guide plate is made of an electrically conductive material.
5. The work measurement apparatus according to claim 3, wherein  
the guide plate is made of an insulative material.
6. The work measurement apparatus according to claim 1, wherein  
a base is placed opposite to the conveyor, and the other of the probes is a base probe disposed on the base.
7. The work measurement apparatus according to claim 1, wherein  
the conveyor comprises a rotatable table.
8. The work measurement apparatus according to claim 1, wherein  
the conveyor comprises a belt.

9. The work measurement apparatus according to claim 1, wherein  
the guide entrance has a size larger than that of the work  
receiving opening.

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